

East King Acute Care Bed Need
Appendix 1

1998-2007 HSA TOTAL NUMBER OF PATIENT DAYS											
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	10-YEAR TOTAL
HSA #1	1,231,384	1,260,919	1,309,677	1,361,082	1,370,268	1,387,558	1,403,345	1,439,081	1,452,646	1,499,439	13,715,399
East King	105,117	107,374	117,204	117,601	114,787	119,269	121,980	133,514	132,771	131,709	1,201,326
STATEWIDE TOTAL	1,891,585	1,954,098	2,034,921	2,120,316	2,121,795	2,143,447	2,158,760	2,227,692	2,277,848	2,344,010	21,274,472

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Appendix 2

1998-2007 HSA TOTAL NUMBER OF PATIENT DAYS											
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	10-YEAR TOTAL
HSA #1	1,231,384	1,260,919	1,309,677	1,361,082	1,370,268	1,387,558	1,403,345	1,439,081	1,452,646	1,499,439	13,715,399
East King	105,117	107,374	117,204	117,601	114,787	119,269	121,980	133,514	132,771	131,709	1,201,326
STATEWIDE TOTAL	1,891,585	1,954,098	2,034,921	2,120,316	2,121,795	2,143,447	2,158,760	2,227,692	2,277,848	2,344,010	21,274,472
1998-2007 HSA TOTAL NUMBER OF PSYCHIATRIC PATIENT DAYS											
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	10-YEAR TOTAL
HSA #1	568	485	412	578	553	810	615	635	661	820	6,137
East King	183	221	119	146	117	119	75	250	551	796	2,577
STATEWIDE TOTAL	107	688	543	456	610	589	985	719	711	966	6,374
HSA #1 Hospitals include: BHC Fairfax in Kirkland, West Seattle Psych Hospital in Seattle, and Puget Sound Behavioral Health in Tacoma											
1998-2007 HSA TOTAL NUMBER OF PATIENT DAYS MINUS PSYCH DAYS											
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	10-YEAR TOTAL
HSA #1	1,230,816	1,260,434	1,309,265	1,360,504	1,369,715	1,386,748	1,402,730	1,438,446	1,451,985	1,498,619	13,709,262
East King	104,934	107,153	117,085	117,455	114,670	119,150	121,905	133,264	132,220	130,913	1,198,749
STATEWIDE TOTAL	1,891,478	1,953,410	2,034,378	2,119,860	2,121,185	2,142,858	2,157,775	2,226,973	2,277,137	2,343,044	21,268,098

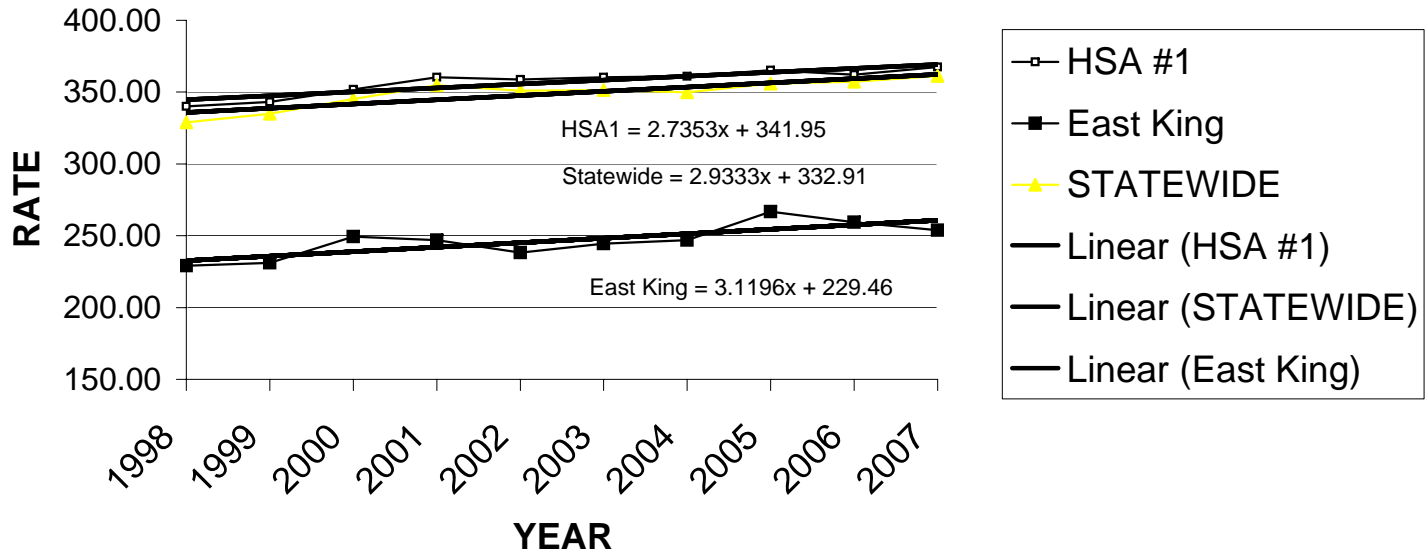
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Appendix 3

1998-2007 HSA TOTAL NUMBER OF PATIENT DAYS MINUS PSYCH DAYS											
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	10-YEAR TOTAL
HSA #1	1,230,816	1,260,434	1,309,265	1,360,504	1,369,715	1,386,748	1,402,730	1,438,446	1,451,985	1,498,619	13,709,262
East King	104,934	107,153	117,085	117,455	114,670	119,150	121,905	133,264	132,220	130,913	1,198,749
STATEWIDE TOTAL	1,891,478	1,953,410	2,034,378	2,119,860	2,121,185	2,142,858	2,157,775	2,226,973	2,277,137	2,343,044	21,268,098
TOTAL POPULATIONS BY HSA											
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	10-YEAR TOTAL
HSA #1	3,620,228	3,673,734	3,721,775	3,776,110	3,818,510	3,849,500	3,885,500	3,938,000	4,010,700	4,077,900	38,371,957
East King *	458,004	463,782	469,633	475,484	481,408	487,406	493,478	499,626	509,654	515,713	4,854,188
STATEWIDE TOTAL	5,750,033	5,830,835	5,894,143	5,974,910	6,041,710	6,098,300	6,167,800	6,256,400	6,376,000	6,488,000	60,878,131
	0.252724	0.253508	0.254402	0.256105	0.257781	0.257764	0.257255	0.25689	0.259		
USE RATE PER 1,000 BY HSA											
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	10-YEAR TOTAL
HSA #1	339.98	343.09	351.79	360.29	358.70	360.24	361.02	365.27	362.03	367.50	3,570
East King	229.11	231.04	249.31	247.02	238.20	244.46	247.03	266.73	259.43	253.85	2,466
STATEWIDE	328.95	335.01	345.15	354.79	351.09	351.39	349.85	355.95	357.14	361.14	3,490

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Appendix 4

USE RATE PER 1,000 BY HSA												
	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	10-YEAR TOTAL	Trendline
HSA #1	339.98	343.09	351.79	360.29	358.70	360.24	361.02	365.27	362.03	367.50	3,569.91	2.7353
East King	229.11	231.04	249.31	247.02	238.20	244.46	247.03	266.73	259.43	253.85	2,466.18	3.1196
STATEWIDE	328.95	335.01	345.15	354.79	351.09	351.39	349.85	355.95	357.14	361.14	3,490.46	2.9333

USE RATES FOR HSA #1 AND EAST KING PLANNING AREA



East King Acute Care Bed Need
 Appendices 5 & 6

STEP #5										
2007 DATA										
	# of Pat days	Less OOS	TOTAL LESS OOS							
East King Hospitals										
0-64	78,049	862	77,187	1.10%						
65+	52,864	863	52,001	1.63%						
TOTAL	130,913	1,725	129,188							
WA - EK										
0-64	1,329,644	73,513	1,256,131	5.53%						
65+	882,487	39,801	842,686	4.51%						
TOTAL	2,212,131	113,314	2,098,817							
	TO East King	TO WA			TOTAL # OF DAYS FOR RESIDENTS BY HSA (LESS PATS FROM OOS)	ADD DAYS PROVIDED IN OREGON **	TOTAL # OF DAYS FOR RESIDENTS BY HSA			
FROM East King										
0-64	43,868	33,319			77,187	268	77,455			
65+	36,272	17,148			53,420	151	53,571			
TOTAL	80,140	50,467			130,607	419	131,026			
FROM WA										
0-64	33,319	1,222,812			1,256,131	43,189	1,299,320			
65+	15,729	825,538			841,267	18,193	859,460			
TOTAL	49,048	2,048,350			2,097,398	61,382	2,158,780			
	129,188	2,098,817								
										** Patient Days as reported by 2006 HCUP data for Oregon CHARS
MARKET SHARE										
PERCENTAGE OF PATIENT DAYS										
	TO East King	TO WA	TO OREGON							
% OF East King RESIDENTS										
0-64	56.64%	43.02%	0.35%							
65+	67.71%	32.01%	0.28%							
TOTAL										
% OF WA - EK RESIDENTS										
0-64	2.56%	94.11%	3.32%							
65+	1.83%	96.05%	2.12%							
TOTAL										
2007 POPULATIONS BY PLANNING AREA										
	East King	TO WA								
0-64	455,632	5,276,516			OFM 2007 Pop. Factor					
65+	60,081	695,771			0.1165					
TOTAL	515,713	5,972,287								
STEP #6										
USE RATE BY PLANNING AREA										
	East King	TO WA								
USE RATES										
0-64	169.99	246.25								
65+	891.65	1,235.26								

East King Acute Care Bed Need
Appendix 7A

USE RATE BY PLANNING AREA FROM STEP 6					
	East King				
YEAR 2007 USE RATES					
0-64	169.99				
65+	891.65				
PROJECTED POPULATION	YEAR 2014				
	East King				
0-64	483,386				
65+	77,161				
TOTALS	560,547				
PROJECTED 2014 USE RATE					
	East King				
USE RATES*					
0-64 using HSA Trend	189.14				
0-64 using Statewide Trend	190.53				
65+ using HSA Trend	910.80				
65+ using Statewide Trend	912.19				
*Projected by applying either HSA trend or Statewide trend, whichever trend would result in the smaller adjustment					
Bold Print indicates use rate closest to current value					

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Appendix 8

USE RATE BY HSA FROM STEP 7A	
PROJECTED USE RATE - 2014	East King
USE RATES	
0-64	189.14
65+	910.80
PROJECTED POPULATION - 2014	
	East King
0-64	483,386
65+	77,161
TOTALS	560,547
PROJECTED # OF PATIENT DAYS	YEAR 2014
	East King
0-64	91,428
65+	70,278
TOTALS	161,707

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PROJECTED # OF PATIENT DAYS				
YEAR 2014	East King	WA - EK	TOTAL	
0-64	91,428	1,474,125	1,565,553	
65+	70,278	1,113,356	1,183,634	
TOTALS	161,707	2,587,480	2,749,187	
MARKET SHARE % OF PATIENT DAYS FROM STEP 1				
% OF East King RESIDENTS	East King	WA - EK	TO OREGON	
0-64	56.64%	43.02%	0.35%	
65+	67.71%	32.01%	0.28%	
% OF WA - EK RESIDENTS	East King	WA - EK	TO OREGON	
0-64	2.56%	94.11%	3.32%	
65+	1.83%	96.05%	2.12%	
# OF East King RESIDENTS	East King	WA - EK	TO OREGON	Total
0-64	51,782	39,330	316	91,428
65+	47,584	22,496	198	70,278
				161,707
# OF WA - EK RESIDENTS	East King	WA - EK	TO OREGON	Total
0-64	37,802	1,387,324	48,999	1,474,125
65+	20,376	1,069,413	23,567	1,113,356
				2,587,480
# OF RESIDENT PAT DAYS PROJECTED IN East King				
0-64	89,584			
65+	67,960			
# OF RESIDENT PAT DAYS PROJECTED IN WA - EK				
0-64	1,426,654			
65+	1,091,909			
# OF WA RESIDENT PAT DAYS PROJECTED IN OREGON				
0-64	49,316			
65+	23,766			
OUT OF STATE % OF PATIENT DAYS FROM STEP 1				
East King	%			
0-64	1.12%			
65+	1.66%			
WA - EK				
0-64	5.85%			
65+	4.72%			
PROJECTED # OF PATIENT DAYS 2014 PLUS OUT OF STATE RESIDENTS				
East King				
0-64	90,584	0.990765587		
65+	69,088	0.983058053		
TOTAL	159,672			

East King Acute Care Bed Need - No Change
Appendix 10a

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
East King Planning Area										
Population 0-64(1)	455,632	465,022	468,066	471,130	474,213	477,318	480,242	483,386	486,550	489,735
0-64 Use Rate	169.99	172.93	175.86	178.79	181.73	184.66	187.59	190.53	193.46	196.39
Population 65+(1)	60,081	56,952	60,169	63,567	67,158	70,951	73,036	77,161	81,519	86,123
65+ Use Rate	891.65	894.59	897.52	900.45	903.39	906.32	909.25	912.19	915.12	918.05
Total Population	515,713	521,974	528,235	534,697	541,371	548,269	553,278	560,547	568,069	575,858
Total East King Res Days	131,026	131,364	136,317	141,474	146,847	152,446	156,499	162,484	168,728	175,247
Total Days in East King Hospitals (2)	129,403	129,758	134,642	139,727	145,024	150,543	154,542	160,441	166,595	173,019
Available Beds(3)										
Evergreen Hospital	227	227	227	227	227	227	227	227	227	227
Group Health Eastside	132	0	0	0	0	0	0	0	0	0
Overlake Hospital	303	303	303	303	303	303	303	303	303	303
Snoqualmie Valley	18	18	18	18	18	18	18	18	18	18
Swedish Issaquah(4)	0	0	0	0	0	0	80	80	80	120
Total	680	548	548	548	548	548	628	628	628	668
Wtd Occ Std(5)	70.73%	72.11%	72.11%	72.11%	72.11%	72.11%	70.57%	70.57%	70.57%	70.83%
Gross Bed Need	501.26	493.01	511.57	530.89	551.02	571.99	600.01	622.92	646.81	669.23
Net Bed Need/Surplus	-178.74	-54.99	-36.43	-17.11	3.02	23.99	-27.99	-5.08	18.81	1.23
(1) Source: Applicant										
(2) Adjusted to reflect referral patterns into and out of East King Planning Area to other planning areas and Oregon										
(3) Source: FSL and OHPDS Data										
(4) Source: Swedish Progress Reports, July 31, 2008 Letter										
(5) Calculated per 1987 Washington State Health Plan as the sum , across all hospitals in the planning area,										

East King Acute Care Bed Need - With Project
Appendix 10b

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
East King Planning Area										
Population 0-64(1)	455,632	465,022	468,066	471,130	474,213	477,318	480,242	483,386	486,550	489,735
0-64 Use Rate	169.99	172.93	175.86	178.79	181.73	184.66	187.59	190.53	193.46	196.39
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Total Days in East King Hospitals (2)	129,403	129,758	134,642	139,727	145,024	150,543	154,542	160,441	166,595	173,019
Available Beds(3)										
Evergreen Hospital	227	227	275	275	275	275	307	307	307	307
Group Health Eastside	132	0	0	0	0	0	0	0	0	0
Overlake Hospital	303	303	303	303	303	303	303	303	303	303
Snoqualmie Valley	18	18	18	18	18	18	18	18	18	18
Swedish Issaquah(4)	0	0	0	0	0	0	80	80	80	120
Total	680	548	596	596	596	596	708	708	708	748
Wtd Occ Std(5)	70.73%	72.11%	71.94%	71.94%	71.94%	71.94%	70.50%	70.50%	70.50%	70.74%
Gross Bed Need	501.26	493.01	512.78	532.14	552.32	573.34	600.56	623.48	647.40	670.07
Net Bed Need/Surplus	-178.74	-54.99	-83.22	-63.86	-43.68	-22.66	-107.44	-84.52	-60.60	-77.93
(1) Source: Applicant										
(2) Adjusted to reflect referral patterns into and out of East King Planning Area to other planning areas and Oregon										
(3) Source: FSL and OHPDS Data										
(4) Source: Swedish Progress Reports										
(5) Calculated per 1987 Washington State Health Plan as the sum , across all hospitals in the planning area,										